

In The Claims

Please replace claims 1 and 2 as shown below. A marked up version of the amended claims is attached to this Amendment.

Please add new claims 16-19.

subp1 1. (Amended) A multiple core exchanger of thermal energy, through which a medium passes to exchange thermal energy with fluid flowing through channels of one or more of the multiple cores of the multiple core exchanger of thermal energy, the multiple core exchanger of thermal energy comprising:

BH a first core having a plurality of first channels through which a first fluid flows and a first serpentine fin and louvers disposed between at least some of the first channels to facilitate an exchange of thermal energy between the first fluid and the medium;

a second core in thermal communication with the first core, the second core having a plurality of second channels through which a second fluid flows and a second serpentine fin and louvers disposed between at least some of the second channels to facilitate an exchange of thermal energy between the second fluid and the medium;

the second fin being integrally formed with the first fin so that the second fin has a shape which complements that of the first fin;

a plurality of thermal fuses which locally connect the first and the second fins between adjacent edges of the first and second fins; and

a plurality of thermal breaks, each comprising a slit that is cut without the removal of material by teeth in intermeshing forming rolls with the serpentine fins and louvers in one pass through the forming rolls.

2. (Amended) The multiple exchanger of thermal energy of claim 1, wherein the slit has a length that exceeds one convolution.

Sub 91 16. (New) The multiple core exchanger of thermal energy of claim 1 wherein the serpentine fins include walls that are connected by bent radii.

17. (New) The multiple core exchanger of thermal energy of claim 16 wherein at least one of the slits have a length that extends over more than one corrugation.

B5 18. (New) The multiple core exchanger of thermal energy of claim 17 wherein the slits have a non-uniform length.

19. (New) A method for continuously roll forming a serpentine fin with a thermal break and a thermal fuse, comprising the step of:

passing a narrow flat sheet of metal between forming rolls that simultaneously form a serpentine fin having convolutions, cut louvers, cut a thermal fuse that may be broken or locally melted during brazing, and cut a thermal break comprising a slit having a length that exceeds one convolution without the removal of material to a prescribed width and pattern.